



PATENT ABSTRACTS OF JAPAN

(11) Publication number: 57208531 A

(43) Date of publication of application: 21.12.1982

(51) Int. Cl. G02F 1/17

B60R 1/08, C09K 9/00, G02B 5/08

(21) Application number: 56093743

(22) Date of filing: 19.06.1981

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(54) AUTOMATIC DAZZLE-RESISTANT MIRROR DEVICE

(57) Abstract:

PURPOSE: To improve the perceptibility and to change the reflectance continuously, by connecting a controlling circuit consisting of an optical sensor detecting an incident amount of light, an output signal amplifier and a switch for an input change to a reflecting mirror in which a specified electrolyte is sealed.

CONSTITUTION: Electrolytic solution 14 in which an oxidizable and reducible org. substance expressed in the formula (R is chain alkyl of X⁻ is a negative ion of Br⁻, Cl⁻ and I⁻ etc.) is dissolved in an inert solvent (e.g. acetonitrile), is sealed between two pieces of transparent glass substrates 11, in the inside surface of which transparent electrodes 12, 12' are formed, and a reflecting mirror 1 provided with a reflecting film on the outside surface of the electrode 12' is connected with a clip circuit 23 of a controlling circuit 2. When a switch mechanism 24 of the circuit 2 is turned on and a light is made hincident into the mirror 1 and an optical sensor 21, a signal in accordance with an incident amount of light is generated from the sensor 21, and this is inputted into an amplifier 22, in the case that an out-

put signal V_{in} from the amplifier 22 does not exceed a normal level value V_m, the electric amount according to the output signal is applied to the electrodes 12, 12' and the electrolytic solution 14 is colored and the optical transmittance is decreased.

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